Rec~ Jan 12th~ 1867 ? 1866 according to McVaugh

Dec~ Feb 1

Fort Whipple A.T.
Nov 26th "

Dr. George Engelmann

Sir

Please excuse the liberty I take in addressing you. You are no doubt aware that when Dr. Bones returned from Arizona to the States he brought a collection of plants the joint property of us both I have not herd from him since, ~~he has not fulfilled the agreement between us~~, If you have not I wish you would not publish any report of the same untill my arrival in the States which will be as early next season as I can finish my travels in this Territory, have two boxes of plants & seeds &c &c. which I will forward to you as soon as a good opperteunity offer. will if found safe on arrival at Sonora visit lower California so I wish all the plants dis-cribed together have the seeds thrived with you, the seeds and plants which I will this time send you may only be numbered as I will have no time to send the notes if the numbers are preserved with them you can have the notes when I come, A long continued fever has injured my health so much that I have been compelled to leave my station and travel for my recovery as I will make the best collection possible hope you will cultivate the seeds as I

think they will be found good. The Indians are so bad here that it is very hasardous to go any where without a strong force

Will you please inform me of the number of your residence so I can find you on arrival at Saint Louis. By directing to Fort Whipple the letter will be forwarded

Prof Baird informed me the plants where sent to you

Very Respectfully
Your Ob Serv
Edward Palmer
Act Asst. Surg U. S. A.

P. S. In overhauling the seeds if any insects are found preserve them with the number or mark of the wrapper. If any of the seeds prove and prove new preserve a bloom for a drawing.

Edward Palmer
Act Asst. Surg U. S. Army
Fort Whipple
Arizona Territory

Dr S Baird

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Rec: March 20th
Ans June 27

Camp Grant A. T.
Febuary 15th 1867

D. Cayleman.

I is having a few packages of seeds which I send you for planting the podds and a seed please preserve as I will collect blooms of them this summer

One package called (Chia) by the Mexicans grows abundantly among the foot hills it is very useful as it answers every purpose of flax seed and slippery elm it is much used steeped in water and sweetened for Dissentery it makes a fine cooling drink for summer especially for travellers it being very Nutricious

Very Resp

Edward Palmer
Act ass. Surg U.S.A.

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Rec- May 25th
Ans June 27

LeConte bugs
Potatoes

Camp Grant A. T.
Ap 28th 1867

Dr G Engelmann

Dear Sir

Yours welcomed letter of Febuary came to hand to day and in reply allow me to say the action you have taken with regards to the plants meets my approbation Am sorry the cactus did not live many packages of Seeds sent where numbered to correspond with those attached to dried Specimens of parent plants sent thinking that after examining and preserving some with the plant if you thought best the rest could be planted

last Summer collected two boxes of plants, and seeds the seed with numbers corresponding to the plants they where left at Fort Whipple to be forwarded to you but cannot here any thing from that post as to there departure will during this season collect all the cacti possible of every Kind with bloom seed and live plants the first one I here a few days since, every thing will be done that can be by one labouring under the disadvantages a collector does here as the Indians are in open war and no one

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

can travel out of sight of the post without a strong guard this being now a four company post have a good deal to do and to morrow leave in company with three companies after the Indians into a very rough and allmost unknown country. anticipating many speci mens on my return will try and visit Tucson as between here and that place is a fine Cactii country I have already thought of visiting Lower California and will do so if I can and return to the states by way of califor nia, I left Fort Whipple in a great hurry had not time to make a copy of the Nos belonging to the two boxes of plants mentioned above the book is at that post & would make it here being numbered will serve to indentify the seeds with the parent plants. be assured wile do all I can for science. what has become of professor Baird as I cannot here from him. Direct to this post I will on my arrival be able to inform you relating to the Cactii

Yours Truly
Edward Palmer
Act Afs. Surg U. S. A.

sent in the boxes you have already received

Washington D. C.
Dec 25th 1867

Sir

Allow me the pleasure of presenting to you a walking cane which is to day forwarded by express, it was cut from a live Cereus Gigantus which grows abundantly over Southern Arizona & Sonora, is very stony and Susceptible of a fine polish.

You will probibly remember receiving from the Smithsonion Institute a box of plants collected by me in Colorado Territory from the base of Longs Peak across the Summit through Middle and South Park to the base of the Mountains in 1860 but they where lost while enroute to Washington but three years after turned up - Also from Colorado a Quantity of seeds was sent did any grow,

In 1864 while enroute from Fort Lyon to Fort Scott Kansas and thence to Fort Gibson Cherokee Nation I collected packages of plants which was forwarded to the Smithsonion with the request they be forwarded to you

Will you have the kindness to examine them and either publish the result forwarding a copy to the Smithsonion

for me or let the Smithsonian publish it
you would oblige me by examining them at
your earliest convenience leaving to your
discretion the publishing of the result.

Very Respectfully
Your Ob Serv
Edward Palmer M.D.

Asa Gray M.D.

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Rec'd March 18 12
Ans 29

DEPARTMENT OF AGRICULTURE.

Washington, D.C. March 12 1870

Dr George Engelmann
St Louis Mo

Dear Sir:

By the accompanying mail I send a parcel of seeds from the recent collections of Dr E. Palmer in Arizona, and Sonora Mexico.

Please report on the results of your examinations, and how they succeed in cultivation

Respectfully Your
Obedt Servt
Commissioner

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Rec'd May 14.
Ans 23

DEPARTMENT OF AGRICULTURE.

Washington, D. C. May 10th 1870

Dr Engleman

My Dear Sir

For some time
have hoped to see you this spring
but I find circumstances will compell
me to go another way on my new trip
but on my return will try and see you
had intended to settle down but my
recent loss of nearly all my collections
made during the last ten months com-
pells me to try and replace the lost
materials so expect in a few days
to leave for Utah thence to Fort Mojave
on the Colorado River and them for the
Sanfrancisco & Bill Williams as circum-
stances

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may often in fact my dependence for
success is based upon assistance which
I expect to obtain from the inhabitants
and Military of the Country which is
at best uncertain — funds are limited so
do not expect great things

You will remember the several varities of
grapes collected at Camp Lincon Arizona
you told me you had raised some if they
should fruit and are interesting it would be
well to preserve a part of the plant and a bunch
in alcohol to report upon my collections
of fruit for a drawing as I wish if you could have
an especial eye on all which you may have
grown from my collection and preserve the new
and interesting matter for the report which
~~to~~ will be made on my return — could you
overhaul all my dried collections in your
hands Yours Truly Edward Palmer M.D.

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Ans May 23

Dear Dr

Your parcel not yet
made up. I shall get desperate
soon. & do up in a hurry. I have
my table loaded up with bundles. and
more on the way. I shall go down to
S. W Virginia next month. and get an Inv of

the high Alleganies.
Ravenelle sent the seed of Yucca filamentosa
he can give you more material in
regard to the Southern Yuccas
Palmer talks to get W next week and
go direct to Salt Lake. thence by the
Mormon Settlements to the mouth of Virginia
and to Ft Mojave & San Francisco. Mr
Hayden goes next month to Washington
Territory will not do much for Botany.
I expect to leave for England in
July - In haste Yours

A Gray

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Rec'd Aug 31st

Fort Yuma, Arizona
Aug 13th. 1870

Dr. G. Engelmann

Dear Sir

Sometime since yours of May 23 came to hand inclosed in one from Dr. L. L. Parry but was absent at the time thus the delay And in reply would say that I will call and see you on my return shall leave here in a boat probably in two days for adair Bay will get what I can. from this place forward to the Department of Agriculture two boxes of live fresh Cactus plants with a can of fruit of the Cereus Gigantia in Alcohol have already forwarded to the Department of Agriculture a number of ripe fruit dried in the shade with their seeds inside Am sure of their freshness made a trip of 75 miles on horse back especially for them at starting in the morning thermometer was 92 but between three and four in the afternoon it was 117 in the shade some people may question this but let them come and live on the Colorado river and they will soon with it was colder.

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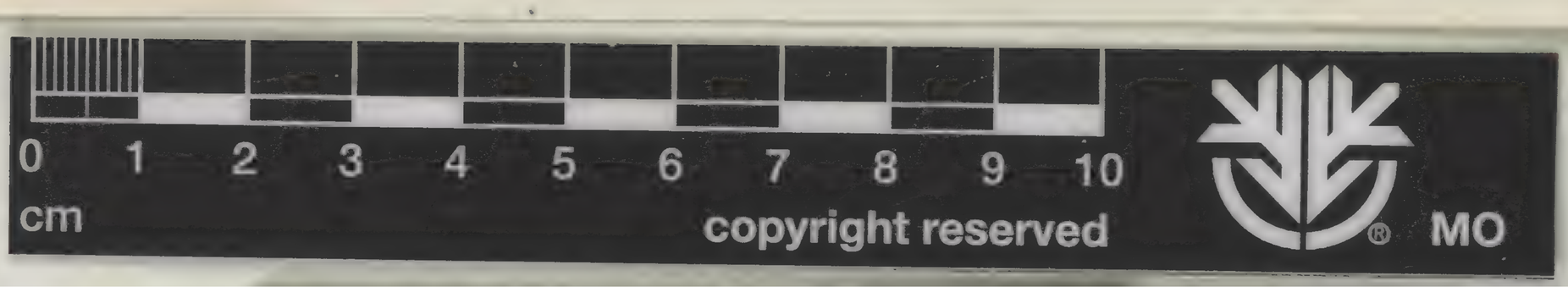
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expect this is my last trip

In Utah passed through vast thickets of the tree Yucca ~~Cactus~~ but not one was in bloom last year they bloomed but the Inhabitants said I was to early that I think was not so but will return though Utah to get the blossoms if any. but will get if possible several live plants

cannot say what I shall find at Adair Bay, one of the principle things will be the celebrated Sonora Parasite - your thorney children will be remembered

Dr. Parry will send you sets

Will try and stay long enough at St Louis on my return to give you what information you may require as on my Return to Washington with to make out my Report to include all my collections. - much of the confusion about my cactus collections was owing to the numbers on living plants being lost thus the dried blossoms are numbered - but the number of the parent plant is lost. - It is hard to tell where a letter would find me so it would be useless to write to me

Very Respectfull
Your ob Servant
Edward Palmer M.D.

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DEPARTMENT OF AGRICULTURE

Washington, D.C. Nov 10 1871

Dr. G Engelman

Dear Sir

You will receive
a letter from me in a few days regarding
my plant collection.

I send you in this bottle some
fruit of Cereus Gigantia the one
sent dry has some fine spines on
so may have one in the bottle
Rev. J. C. Johnson of St George
Utah Territory who sends you
by many cactus wishes to have
some seeds and plants of the
Guava fruit could you not get
from Mr Shaws garden some seeds

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of the Guava fruit and send to him and get them to strike some young plants that might be sent to Mr. Johnson in the spring the department has no Guava plants or would not trouble you to get them Mr. Johnson wishes to try and grow the plants out doors the climate of Southern Utah will I think admit of it.

Very Respectfully
Edward Palmer M D
Smithsonion Institution.

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Rec'd Nov 22
Ans Dec 6

DEPARTMENT OF AGRICULTURE.

Washington, D.C. Nov 14 1870

A. J. Engelmann

Dear Sir

Yesterday Dr. Parry and myself packed and forwarded to you a quantity of oaks in fruit collected by me. Many had the locality marked inside the boxes while those in paper where on marked they where collected near Fort Whipple in August 1869 but have neglected to mark the locality on the packages Could you examine them at your earliest convenience And if you will return them named with instructions as to how the leaves may be softened so as to press and form them for the Herbarium one set of which shall be sent to you.

There is a quantity of more oaks in bloom that will be sent as soon as we get to them.

The unmarked quantity sent by Dr. Parry from my collection and which you showed me is from St George Utah it has nice blanet colored blooms some of which was collected. Soon hope to overhaul the Yuccas and cactus then

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you will hear from us x

Dr. Parry thinks it would be better if you would send to the Department all the collections made by me in your possession, except the yuccas and cactus, and those destributed in your detained or private collection. could you send a List of what ever you have in your private collection with what notes they may suggest — so they may be reported upon And the undestributed ones or duplicates you may have will you forward if- in accordance with your wish for the use of the Department or to be returned to you if- desire

Could you send all the specimens ~~of~~ of Grapes and their fruit which after being examined will be returned to you as I wish to see them for some notes, have you any information to impart x ~~any~~ regarding them. information regarding my collection will be acceptable for the report. and placed to your credit.

My Kind regards to Mrs. Engelmann

And believe me to Remain

Yours Ob Servt

Edward Palmer M.D.

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Rec Dec 15
Ans Dec 20

DEPARTMENT OF AGRICULTURE.

Washington, D. C. Dec 12 1870

D. G Engelmann

My Dear Sir

I am much occupied prepar-
ing an Article for the next Agricultural Report
upon the various vegetable production used as
Articles of food by the Indians As it is wished to have
it illustrated by drawings of the most prominent
articles, it occured to me that a fruit of the Eatable
Yucca would do - could you not send me an Accurate
drawing of the fruit of the Yucca Baccata you have
old and young fruit And if you could manufacture
a picture out of them you will much oblige by
sending it as soon as you can to this Department
could you also send me the number of different pack-
ages of grapes collected by me on the Virde River
Arizona And was one small like the frost grape of
the Northern woods - this information is wished in order
to more Accurately prepare an Article upon the grapes
used by the Ancient and modern Indians. as food.

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My Sanfrancisco Pine was sent to you to day

My kind regards to Mr. Engelmann and

Believe me to Remain

Your ob Servant

Edward Palmer.

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Washington Jan 16th 1871

Dear Doctor Engelmann

Your letter of Dec 20 would have been answered before but have been hard pressed Am much obliged to you for the Yucca drawing

My things from St Thomas & Utah have not arrived nor have those from Arizona as soon as they do will send you your specialities Dr Parry left here yesterday for New York and will go to Sandomingo with the Commissioners on behalf of the Agricultural Department and will be absent some time.

Have not made up my mind what I shall next do if I go out again will try and go to the cactus regions of Arizona and Sonora as it will afford as much new or interesting matter as any place as soon as it is determined will acquaint you that you may furnish me with what memoranda you may deem necessary in order to collect your specialities.

Dr I will not trouble you to send the leaf specimens of grapes as your descriptions will answer my present purpose If you have any friend that would like to plant the grape seed so as to fruit them you might let them try or if you think the Department of Agriculture could best make the experiment you may send them to me some future day may wish some of the grapes in order to test the size but would say if there is but few grapes and in taking the seeds the grapes are spoiled for use should you think they might be wanted for any purpose would not spoil them if you have sufficient and think best you might send some seeds to plant

It is very strange from Arizona I sent to the Department in August last a quantity of nice dried fruit of the Cereus gigantens the fruit was perfectly ripe when dried and I sent it at once by mail in order that they might be distributed while fresh they came safely and some was sent to Hooker but the rest is not to be found in the Department Dr Parry was absent when it came what was done with the seeds is a mistery A number of dried perfectly ripe fruit of Cereus Thurberi was sent with the live specimens one of which you have but they are not to be had it is vexatious after taking all the trouble I did to get them and

after their

arrivel in Washington to have them disappear so
+ completely is prool encomagement.

As to the Oaks Doctor could you find time to work them up when the days get longer you would much oblige me

Am very sorry Dr Bowes should act so unjustly as he only collected a few small specimens while the collection was allmost entirely my collection but as he was going to Washington from Arizona agreed to share the credit with him on condition that he would see the collection worked up but as he has so acted deprive me of any credit will say no more about it, it is not your fault Doctor. And you are not to blame.

but you remember the collection made by me at Camp Grant Southern Arizona and sent to you by me Dr Bowes had nothin to do with that collection as he had long before left Arizona the two collection may have become confounded One thing is ~~xx~~ wished that is have you any undetermined grasses in the Camp Grant collection as Dr Parry has written to Boulander asking him to work up the Grasses of my collections in the Agricultural Department it occurred to me if you had any undetermined grasses collected by me they might be sent here to be forwarded with the rest and should you desire they can be returned to you after being examined, you may however wish to work ~~them~~ up what you have yourself.

The suggestion is made with the best feeling

My kind regards to Mrs Engelmann, and best wishes to yourself

Your Ob Servant
Edward Palmer M.D.
Smithsonion Institution
& the Department of Agriculture

Dr George Engelmann
St Louis
Mo.

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Rec'd Jan 21

Washington city
Jan 17 1871

Dr. George Engelmann

My Dear Sir

Some time since by request of Doctor Parry wrote to Mr. Bloomer of San francis California ygarding Photograph of Yucca bicata which bloomed in that city and was photographed he says that Dr. Trask made the photograph and Mr. Bloom says he has a number of dried specimens of bloom of the same plant in the Herbarium of the Academy of Science Should you wish the use of them if they have not duplicates by writin to Bolander he would procure them for you he would get the Photo-graph for you also have no doubt as he is acquainted with Dr. Trask.

My Kind regards to Mrs Englemann

Yours Truly

Edward Palmer M.D.
Smaithsonion Institution

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Rec' Feb 11

DEPARTMENT OF AGRICULTURE.

Washington, D.C. Feb 6th 1871

Dr. Engelmann

Dear Sir

Your letter came this morning with the grape seeds part of which will be planted here and the others will be sent to a warmer place for trial.

I send you some leaves of yucca of the large variety collected last summer and of which we talked and of which Dr. Parry sent blooms lately

Edward Palmer M.D.

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Rec'd March 1st

DEPARTMENT OF AGRICULTURE.

Washington, D.C. Feb 23 1871

D. G. Engelman
300, 3 Locust St.
St Louis.

Dear Sir

The other day in a damp out of the way corner in an out building attatched to the Green house of the Department was found the seeds of the bered Gigantea they where much injured some of the best have been planted and the balence of the good have been sent to you and Dr Gray hope you will be able to prove them and that they are as fresh as you wish them for distribution in Europe. several nice healthy plants of the Yellow Yucca of St George are up if your seeds do not prove you must have some plants from here

Mrs Parry received a letter from the Doctor this day he will leave Sandomingo two weeks after the date of her letter, it is considered useless to write to the Commission as there is only one mail per month and befor letters would reach them they would either be on their way home or at some part of

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Sando mingo out of the reach of the mail on its arrival, your note to Dr Parry was handed in to be forwarded but it may not reach him

I have been appointed Agent for the Pimo and Maricopa Indians of Arizona as soon as instructions are ready will start for Arizona.

Should you have any suggestions to make regarding your specialities please forward them so that I will get them before my departure

My Regards to Mrs Engelmann

Believe me to

Remain Your Ob Servant

Edward Palmer M. D.

P. S. the specimens you spoke of will be attended to before I leave. The Department has me rising large plant of Berens Gigantens doing wel - the offshoots that I sent last year have all been distributed but I will try and send you a live plant next summer. The paper have been planted that is part of them and the other half have been sent to Mr Johnson of St. George.

E. Palmer.

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DEPARTMENT OF AGRICULTURE.

Washington, D. C. March 14th 1871

Dr. Engelmann

Dear Sir

I sent yellow Yucca in the
of yellow yucca, it was collected
in St. George Utah

The leaves of the yucca last sent
from Sacramento valley Arizona belong to
the ~~Arizona~~ yucca flowers sent
to you by Dr. Parry just before he
left, he sent some notes with
them, and you may remember
writing some notes from my infor-
mation when at your house there
is more leaves and a chunk of wood

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which can be sent when the
Doctor Returns there are plenty
of more flowering specimens
the flowering stem is scarcely
above the leaves.

Your letter to Dr. Parry was sent
to him - he is expected soon
Am not certain how soon
I will leave. All the oaks
Trees I will be sent as soon as
the Doctor returns, no more
seeds of Cactus has turned up -
of the Yucca last sent you,
have the complete top of one
it being old the leaves are shorter
than the leaves of younger plants.
the flowering specimens sent was

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was marked with locality,
so that whatever Yucca flower
are make Sacramento valley
belong to the large broad leafed
Yucca I sent you last.

Very Respectfully
Your Ob Servant
Edward Palmer M.D.

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Rec'd March 30

Washington
March 27th 1871

Dr. G. Engelmann

Dear Sir

It affords me pleasure to answer any enquiries you may do me the honor to make As to the yucas of Sacramento valley you are correct I intended to say that the long and short leaves that are broad with rough edges and bark are the same the longer and broader leaves are from a young plant while the short ones are from an old plant about to decay the upper part with its green leaves was cut off as a specimen as it gave the character of the plant at the same time was easier of transportation than a large younger part a section of the wood was cut off now as soon as the Dr Parry return the section of wood and the top of the plant shall be sent to you the flowers marked Hardyville are from Sacramento valley are from this species am positive and are not yucca Biccata at all as that does not grow there but this plant is between five and six feet high as I could but just reach the flowering stem which

was but a very little above the leaves having
a number of latterals with its numerous blooms
form a short compact white mass

The Kandyville flowers are from the large
rough leaved species of the Sacramento valley the
leaves had not arrived at the time they were
sent this plant looks like a dwarf forest over the
valley

The small species from St George Utah is
not an ustifolia I think it grows abundantly
is small its leaves are used to tie up grape vines
the flowering stem is several inches above the
leaves has a number of latterals the flowers are
small and the leaves narrow and short the leaves
sent you are of a very young plant— thought they
would do to accompany the specimen and that
old leaves could be got from Mr Johnson
if you would write Mr Johnson and say you
would like leaves of the short narrow leaved
Yucca used to tie up grape vines by himself
he would send you some

The narrow leafed species of Sacramento valley I
saw but few plants they grow close to the ground
with out stump above ground leaves rather close
together upright with a stiff appearance

Mar 27 '71

The Yucca Bicata is from St George Utah

Dr Parry is expected back to morrow as to day they are expected to land at Charlestown South Carolina

Yours Respectfully
Edward Palmer M.D.

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Washington City D. C.
June 16th 1871

Dr. Geo Engelmann

My Dear Sir

A few days since found that I had been cheated out of my expected Appointment As Indian Agent. And now I change my occupation, As to night— leave for Woods Hole to Assist Prof Baird in his labours as Commissioner of Fish and Fisheries will be absent all summer, my address will be at the Smithsonion Institution

On the return of Dr Parry from Santo Domingo he had so much to do that he was not able to attend to the requirements of several of your last letters but on my return we will read over the letters and send what is wanted

In one of your letters you spoke about a thin nar-

June 16 '71

row leafed Yucca from Union pass Arizona did not find any in bloom it grows close to the ground the leaves sent are an average

The other Yucca with large leave you said was Bicatta you may be right the blossoms sent marked Union Pass are from that plant and the reason why I thought it was not Bicatta was because in Utah New Mexico and every place else in Arizona except Union Pass Bicatta is a very dwarf plant but at this place it was so tall that had to get a stick to bend the flowering stem down with before the flowers could be got the flowering stem is scarcely above the leaves. the plant is more generally a single stem sometimes has one or more side branches, hope your garden is doing fine did the last Cactus. sent you from St Thomas grow do you know what it is, Hope yourself and Mrs Engelmann are well, with my best wishes

Remain &c 1876 Edward Palmer M.D.

Rec'd Dec 25 1871
Ans — 27

Washington City
Dec 19th

Dr. George Engelmann

My Dear Sir

I returned from
Woods Hole Mass. some time since
but owing to a multiplicity of causes have
not written you my wife was good — am now
putting in order the Alcoholic collection of
the Smithsonian which is very large.

Now sorry Dr. Torrey has left What will be done
with regard to appointing his successor is not
known. As a good deel of my collection
of plants remain unworked up will you
please inform me if you would like
any part to assist you in working up any
thing you are now at work upon if so
please inform me. And I will endeavour

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to procure it from the Department as soon as possible.

Paid a visit to Dr Gray his garden and Green houses are very nice

You remember the flowering end of the Cactus Shottii from ~~Lower~~ Lower California collected by me it is growing nicely and its long slender spines are all on and as tight as ever is a great contrast to the non flowering part which has but a few short spines both parts are growing several Cactus sent to the Department by me have died from neglect why, can not say, but little care is bestowed upon cactus at the Department.

Hope you and Mrs Engelmann are in good health, allow me to wish you a merry Christmas and happy New Year

Edward Palmer
Smithsonian Institution

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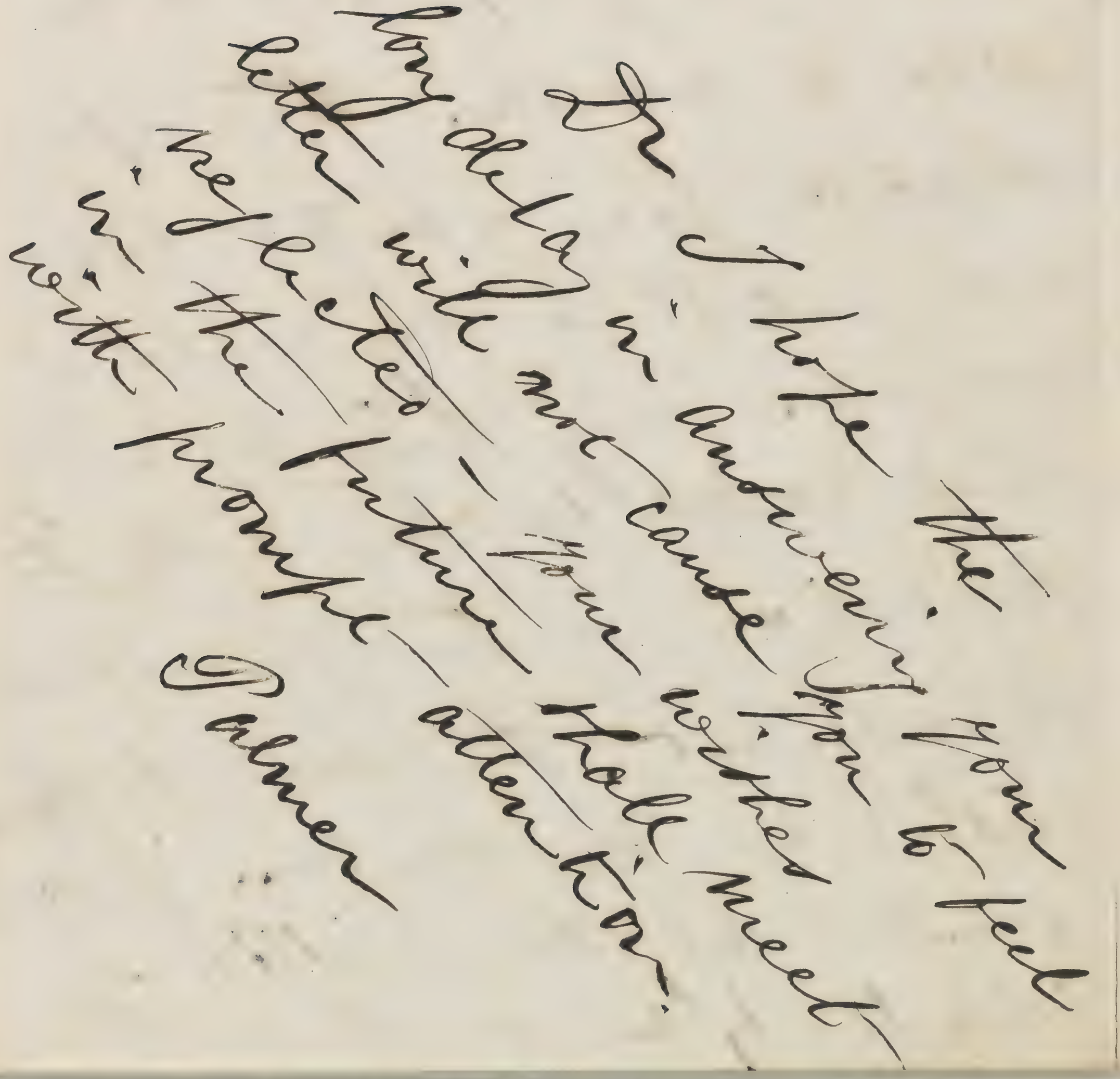
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Ans Apr 16 1872

Washington
April 11th

My dear Dr Engelmann

Your letter dated
Dec 27th 1871 would
long since have been answered
but every day expected to be
able to ascertain the infor-
mation you wanted but
not until to day could I
ascertain any thing definitely
what could be done with the
Herbarium in the Agricultural
department. the new botanist
wished me to ascertain if you
wanted only the Mistletoes
collected by me or all in the



April 11

Department Herbarium

Do you want any other plant to finish up any thing commenced Let me Know what you want and it shall be attended to at once

The Information you Wanted regarding the Agaves will be furnished as soon as the New Botanist and My self have time to go over the Agaves in the Department by the time Your Answer to this is received. My Kind regards to Mrs Engelmann

Yours
Edward Palmer.
Smithsonian Institution

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GEORGE ENGELMANN PAPERS

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Rec'd Jan 6
Ans Jan 10

SMITHSONIAN INSTITUTION,

WASHINGTON, Jan 1st 1873

My dear J. Engelmann.

Your last letter to me was misdirected and not found until the other day, I re-
ceived some information regarding a species of Agave
from me November 8/72 I went over to the Department
of Agriculture and looked over their leaves that were dried
& pressed together but were assembling it could be found could
not see all as much of the Herbarium had been
removed to a new room and not arranged. Your letter
getting misdirected, and was myself absent all summer was the
cause of my not fully answering your letter before and on
my return found all the Department flowers
had taken sent to you in reviewing your letter
I see that the Agave flowers collected June 6th
near Date creek Arizona (are of the same species as that
species collected by me at Vicksburg the places are
near each other and the plants grows all over the
hills the reason no more flowers was obtained was because

Jan 1 '73

no more could be obtained as the plants had done blooming. I was going in an ambulance to Salt Lake at the time & could not get plants or flowering stems being crowded with people and baggage - the flowers was placed in a memorandum book — the second visit to that spot was not in season for flowers but procured plants at Washington and I think seeds you may rest assured that the flowers collected at Salt creek and the plants from Utah county are the same. In looking at the two flowers which you sent (and which are returned) any recollection is that they must be from St George if collected in 1870 Dr Parry sent you at two different times specimens of Astragalus and I think a small species of Yucca from St George it may be possible that they might have been collected before but not sent to you until 1870 but rather think not as I do not remember collecting flowers out at St George in 1870 — The Agave first collected by me has a very wide range extending in fact all over Southern Arizona. As the Agricultural

Rec Jan 6 1873

Department has sent its leaves to you it may help to clear up the mistery — as you may find more of those sent to you by Parry and if they are on the original paper the locality — and date will be marked. some of my specimens had the locality or trip marked (Journey) on the paper during which the specimen was collected. Any information in my power will be given you — Original papers with the inscriptions if I could see them might recall fact to my mind.

All the mistletoes I have have been sent you am sorry there was no more as Arizona abounds with them I think they are marked with Locality and date if not and you will inform me what is deficient will try and replace it.

Dr Vasey has sent you many specimens with the hope that you will have time to work them up in the future.

You will be surprized I am sure to learn that the new Cactus Johnsonii is dead the have let the greater part of my collection rot — only two of the Leconteanum and three of the new one name after me remain have you both species do you know if they were sent to Hooker — have asked that one each be sent him but doubt if it will be done — you will remember Bergus Schottii collected in Lower California one of the non flowering pairs was sent to you the non flowering one has not made any new wood but the flowering end has commenced to

make a new growth I will watch it
so as to see if it produces the long white
pendent shines of the flowering end or the
short black ones of the non flowering parts
the old white pendent shines remain as
prim as when the part was removed from
the parent plant not a shine has fallen
I will keep you posted regarding it
I am disgusted with the management at
the Agricultural Department Greenhouses
& cactus receives the same drainage, soil,
and water as a swamp plant or one
from the humid tropics

Hope your health is good

Did the Johnsonii collected by me in Arizona
live Have you all the leaves and
pieces growing the seed of which was col-
lected by me.

Please present my regards to Mrs Engelmann

Very Truly Yours

E. Palmer

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Rec'd Febr 4th

Washington City
Jan 30th 1873

My Dear Dr. Engelmann I should have written to you before but waited until I could go over to the Agricultural Department.

At last they have removed the cactus to a new and dryer place in the greenhouse and they will soon improve its to be hoped E. Schottii is growing both the flowering and non flowering ends are throwing out young shoots, the spines are (the young ones) like the non flowering part of the plant — the long white spines still adhere to the flowering part.

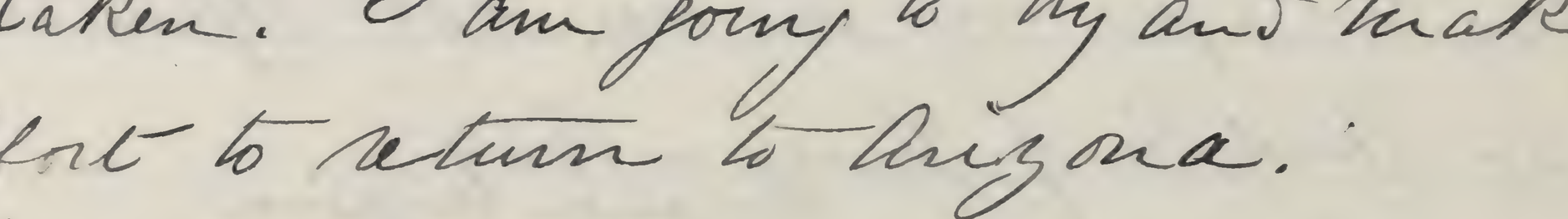
No 4 Grows on pines in thick clumps, high localities it was seen but a few times and near Fort Defiance New Mexico Middle of June — 1869

No 2 — Dec 6th. 1865± Rio Verde Arizona from high rocky recesses near the summit of a prominent peak (called Squaw peak) on maps (I call it Dr. Engelmann peak after Dr. Engelmann the originator of these pictures because from this spot the country is seen for many miles and it is the most prominent feature in the low ranges of mountains which hem in the valley of the Rio Verde Arizona

I herd from Johnson not long since he had then just returned from a visit to Salt Lake city.

Many of my specimens was necessarily small as they was collected on journeys made on foot while in the field with soldiers after Indians, placed between boards and folded in my blanket which was carried on my back often five a six days, not only what I collected but food - arms - ammunition - blanket - dressings, instruments, and necessary medicines had to be carried I weighed my pack several times and it averaged 45 lbs a good burden to be carried for several days over a very rough country on foot so could not collect as I would under better circumstances - no animals was allowed to be taken. I am going to try and make an effort to return to Arizona.

Dr. Vasey and myself are on the best of terms and I think he stand well with the Department, he is getting all his duplicates ready for distribution and arranging the entire collection in good order



Jan. 30 '73

Cataloguing it as he go along he has a big
job before him. Should I make any more
collections hope circumstances will enable me
to get larger more complete and satisfactory
specimens. The Agava question I have thought
over and feel convinced that A. Palmeri – the
leaf you have 11 inches long & 3 wide Southern
Arizona and into Sonora 1869 and the one Aug 1871 through
D. Parry (Wickenburg 30 miles north of the Gila I
am of the opinion they are all one and the same
species in fact the Agaves of Southern Arizona
and contiguous portions of Sonora are the same
A Parryi is from the northern portions of
Arizona and New Mexico if it is not
the same as that from Southern Arizona
it is very near, it is generally larger and longer
in the leaf. The A. of Schotts collection must
have a limited range and confined to mountain

recesses near borders of Sonora or there
some one else would have found it
I return the agave blooms feeling confi-
dent they belong to the Wickenburg and Southern Arizona species
before said there is but one species in Southern
Arizona that has a wide range
My regards to Mrs Engelmann
and believe me to be
Yours Ts Sincerely
Edward Palmer
Smithsonian Institution

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Rec'd April 20 1876
Ans May 1st

Rec'd of Goldwater & Bro

Ehrenberg Arizona Terr
March 31

Dr. George Engelmann

Dear Sir

Ech. Williamsi

I send you by mail a plant of cactus and in another box the fruit and seed of the same species of cactus, Previous to the advent of whites the Mojave Indians of Arizona used the spines of this cactus for fish hooks - I got an old Indian to make me some he first placed the fresh spines in water for a short time, then wrapping his thumb and the contiguous finger with rags these was protected from the effects of the sharp points at the same time forming a condion against which the two ends of the spine rest. one being taken out of the water the Indian took a torch made of twisted rags the thickness of ones small finger this he lit and held to the spine which he continually moistened in his mouth and applied the gentle heat as he gradually pressed down

the point to the desired curve ~~[illegible]~~ by this simple process cactus spines are gently tempered so as to bend to a serviceable and strong fish hook

Expect to leave hear for Wickenburg the Cactus & Yucca Garden of Arizona will see what can be obtained in your line

Yours truly
Edward Palmer

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P. S. Told W. H. Hardy you would return what postage he paid on plants for you L. S.

Rec'd June 27 1876
Ans — /30 —

San Bernardino
June 15

GEORGE ENGELMANN PAPERS

Dr. Engelmann

Dear Sir

Your letter of may 1st reached Ehrenberg after I had left that place so slow are the mails of Arizona that the letter was sent after me from place to place and only reached this place a day or two before I returned. I would willingly have attended to your wishes expressed in the letter

Returning to this place from Arizona by coach passed the cactus you want on the Mojave River and in the Desert (saw them but none in bloom saw their fruit

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the wooley seed pods. I was numerous
coach being loaded with passengers
could not stop - fifteen miles
further and a station was come
to hear I staid several days
collecting plants but could
not find any Cactus it being
near the mountains, there was
no team to be had or would
have went back after the
cactus -

The coach did not pass on the
Road where Agave Newberyi is
to be found a gentleman told
me it was not in bloom - as
he would probably visit the
the locality of the plant while
in bloom have given him
your address and instructions
how to send you some fresh
flowers and leaves by mail he
will comply with the request

June 15

if possible thought it easiest
~~for~~ for him to send fresh
than to to trying to dry them and
have spoilt specimens his
address is W. H. Hardy at
Hardyville Arizona if
he send the specimens you
can then arrange for him
later in the season to send
plants by mail - now would
dry quick
The oak you speak of as from
Larkens and Las Juantas is the
finest for cultivation of all
the Dwarf oaks it resembles
the Holley its very green thorney
leaves no old blossoms could
be found - had hoped to have
visited this locality earlier this
year but could not do so
and will wait until some future
time ~~this~~ (spring) before going

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to Lower California and around San Diego. will leave here for San Luis Obispo to collect in a few days.

The oaks was collected in July and August last year The oak from San Francisco mountains was not in bloom nor could any fruit be found none of the oaks about Prescott Arizona was in bloom.

As soon as my injuries admitted took team and went over to the Mojave Desert and reached nearly the cactus field when in consequence of pain and heat (110 in shade) had to return was quite exhausted on reaching the nearest house nearly all vegetation had dried up since my former visit, hope to have succeeded so as to get plants of each of those rare cactus very truly Edward Palmer, San Luis Obispo. Cal.

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Rec'd Jun 30 1876
Ans same day

San Bernardino
June 15

Dr. George Engelmann

Dear Sir

Just after
posting my last letter Dr Parry
received a letter from you
in which you asked two
questions about the Yucca
brevifolia — the fruit grows
erect one is sent with stem as
to show this fact — two more
fruit perforated by insects and
one is more mature than the
others Prof Riley may like to open
one to examine the insect
lava inside they may hatch if
the fruit is hung up in a muslin
bag. A short time since
Dr Parry and myself was talk

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ing about evergreen oaks shedding their leaves he remarked you was anxious to get information upon that point. for fear he may not have communicated my observation upon that point would say that in Arizona ~~as the~~ dwarf and tree oaks put forth their young leaves the old ones put on a yellowish shade and fall off that is part of the old crop what appear to be the oldest leaves. I noticed that when the new leaves was nearly grown there was yet some of the old one on - now can it be that these are the ones to fall the following year. with the oldest of new crop. Very truly

Edward Palmer

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June 15th
Rec June 30 '76

P.S I forgot your second question is the fruit pulpy or dry on my last visit was to[1] well to walk much, the old but one or two seen which pods seemed to be husky, as you will observe the fruit are very fleshy now so much that it is scarcely possible it should all dry up any more than on the Yucca bacata — Dr Parry stay near longer and may get more mature fruit

Very truly
Edward Palmer

[1] +

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P. S. Sent to Dr Vasey - fibers of Agave & Yuccas - with large sections of wood of same and wood of that new oak besides many other things.

San Francisco Cal

Rec Aug 18 1876

Aug 11

Dr. George Engelmann

Dear Sir

Yours of June 30 reached me on the way to this city I would say that - that I never saw the fruit of Yucca brevifolia only in the condition sent - its color from the fruit I think would indicate a pale yellowish not white I do not know if it is eaten as there is no Indians living near it it does not seem to have much pulp - like Y. Bacata it is rather inclined to dry (all) seeds of Yuccas and Agaves are used as food by Indians after being reduced to flour - Yucca Bacata dry very easely in the

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climates of Southern Cali-
fornia - Utah & Arizona
Indians gather quantities
and dry them for winter use
they are very sweet but have
a ~~Cathartic~~ tendency - ~~Use~~
its ~~a~~ pleasant taste is somewhat marred
~~but leave~~ by a slight bitterness left - There
is not much shrinking in drying
when fresh the fruit is much the
form size and but little lighter
in color to the ordinary yellow
Bannana its pulp of the same
consistency - in drying it assume
a brownish hue
There is a Gentleman going to
the locality of that new oak
2. Palmeri have asked him
to get a peice of mature wood
blanches with cups and ripe fruit
and to send the same to You
think he will do so. the plant

Aug 11

has uniform thorney leaves
all over the plants young
and old branches alike
its Holley like character
attracted my attention - its to
late for flowers have asked
the gentle man to pay particular
attention as to the uniform
spiney character of its leaves.
The Agave and oak papers
you may please retain for the
present - I fear the gentle
man I spoke to about flowers
of R. Newberryi was not in
time to get them for you it
was W. H. Hardy Esq of
Hardyville Arizona - fearing
if you should write to him
it might be to late for seed
so I have written to him
to day to get you seeds &
plants and forward the

came to you. if you with
to ask him any questions about
the plant he will answer them
as he is a good observer and knows
the plant he goes to Peacock
Springs he has cattle near
there and spoke to me of the
plant. Hardyville is on
the Colorado River Arizona
this gentle man is constantly going
from one place to another over
Arizona

I presume Parry has told you
of our plans — I shall go with
Parry to Davenport to work up my plants
have sent cactus and Agava from
Arizona to Agricultural Department
should you go to Philadelphia could
you not call at Washington

very truly, C. Palmer

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Ans' March 7 1872

Mr — 14 x 4

Mt Carroll Ills
Feb 25—

M. J. Applebee—

Have not yet received the seeds I ordered two days ago but I do not think it worth while to wait—until it flowers then you'll be able to get seeds for trade

The fruit of the Common Prunus of this section was all gone the birds had eaten the fruit nothing left but the stones which would grow were seed to be found.

I send you a package of Forsiter with flowers and mature fruit on the same specimens - Thinking you

Feb 25

Neither have I before have
noticed the specimen from
this section in that condition
it may also do to compare
with the flowering specimens
of the Juniper from Prescott
Arizona that you last sent.
The specimens sent to Mr.
Ward collected on the 13th of
February.

I still delight in Arizona
Rose — but little Rain has fallen
for several months — it is very dry
and indeed rain time will be
very welcome in this section
Can not take what come
and make the best out of it

Yours truly
Edward Palmer

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Ans May 4th 1877

St George Utah
May 25

M George Engelmann

My dear Sir

I have just returned from my visit to the Muddy 100 or more miles South of this place am up to my eyes in work it is past Mid night so cannot write much found some good plant among them your long desired Cactus with wooly red pods you wanted me to get on the Mojave River last summer I found it abundant 55 miles South of St George (Start in Two days South East of this place to an unpeopled place) send you to day by mail ~~to~~ a Cigar box containing fresh flowers of that new Cactus Johnsonii marked on

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Cig (no 1) attached to one of the flowers
they are in a layer by themselves
(no 2) with flowers green ish yellow
of the opuntia fragilis or related
(no 3) flowered of the long white
spined opuntia

Tin can marked on the out-
side (no 4) contains an offshoot
from an old plant of the
woolly podded cactus you
wanted I found the young one with root
and grow a number on
one stock 2 to 12 have a nice
bunch that will not weigh much
and can have time will send it
by Rail Road at freight rate & you
pay will then see its character
will send some plants to Cambri
dge (1 cigar box containing peices
of opuntia corresponding to flowers
marked (no 2) and with that number outside
1 cigar box marked (no 3) plant cor-
responding to flowers no 3
1 Tin can small plants new cactus
Johnstonii with peice of old
plant to correspond to flowers marked

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Ap. 25

But I so marked on can
the tin can containing the
woolly seed pods of the plant
the off shoot [ no 4) was taken
from. In the same can will
be found some dried seed
pods of the Agave Bracteosa
that hung on all winter they
may contain some seeds
you will see how much fuller
they might contain by steaming
me a little time in warm
water as it would soften
and give the character when
ripe
Hoping these may reach
you safely and in good
order Remain Yours
Edward Palmer

P. S. I have two nice plants of
Cactus Thurberi for you which
will send with the other cactus when
I can get time E. P.

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Rec 14 May 1877
Ans same day

St George May 5

My dear Dr. Engelmann

Returned yesterday
from a very hard trip among the
broaken Mountains 75 miles
little E of From St George and
not far from the Colorado River
and to day ship the following
mail to your address from the locali-
ties one box containing branches
of a very peculiar juniper like growing and looking a pinus monterey
Cypress branches growing close in
giving the tree a solid look it
gradually tapers from the bottom
to the top around the branches at
the base 100 feet but at top
say 15 feet it is but a single twig
it has a much brighter green
with more white about it than
the surrounding Juniper californica

but few trees was met with their
cometical form readily led
you to detect the difference
from the J. californica which
is a rough ugly tree with a
very irregular shape even in
the young ones, in the same box
will be found some boxes seeds
they are not nice thought
you might like them the
white coral was ripped off
in packing then is a box
there was but few seeds
The long peice of wood sent
is taken from one of the largest
limbs would have sent peice
of trunk but forgot to take care
Trunks three times the size
of this peice. a few inches
from the ground the tree
~~[illegible]~~ sends out several stems
which themselves give out laterals

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which forms the trees shape
is periodic. Notice the leaders
decreasing in height as the shape
became until only one forms the
apex by a single stem or twig
A short piece of wood will
be from this was sent as
Juniper californica but have
detected two kinds among this
Juniper so lay this aside
as soon as I go to the woods again
will look into the matter and
send specimens of wood for com
parison (Arizona Juniper not
among them). You will find
just beneath of the young
plants of this a scale like
the two sent to Cambridge
by me last winter young
stem in abundance the
young plants from poor dry places
look different from plants in
good soil with moisture have
a large plant for you which

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will be forwarded to you in box with Cactus shown in previous letter.

A plant of average size at the time of blooming is sent it is to represent that part which the Indians roast and eat only they cut the leaves a little closer to the heart and bake it is very sweet & relished even by white men just as the plant shows signs that it will bloom it is cut & roast as then it is best — this weighed 3 lbs 8 ounces The flowering stem is sent along in sections to give you some idea of it and to show the gradation of sizes from the plant to the apex of this stem — none was further advanced Indians roast this in hot ashes and esteem it highly. A box of earth is sent to show what kind the plants grow in.

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May 5th

A Clump of old Capsella
and two pods with seeds in
piece of paper I will try
and make another later trip
for blossoms, in old and
fast growing plants stems
are further apart on the leaf
which is wider while the
stem at end of leaf is much
longer I send also box of
Cactus fruit. These specimens
was collected April 2nd 187[illegible]
I am contemplating two extended
trips to isolated places before
leaving here

Yours Truly
Edward Palmer
St George
Utah

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Nat City May 29 1877
Ans June 13

St George Utah
May 22

My dear Dr Engelmann

Just returned from a trip and find your letter of May 7. Just visited mountain meadows 60 miles west of this place. Had 20 mules caught in a severe snow storm. Just as going to camp in mountain meadows and took three of those riders of snow covered mountains & had boys had to return with out doing much ice half inch killed many plants in bloom take fore, that Juniper sent by me to Dr Bailey was from near Prescott Arizona the same as the picture I gave you and pointed out to you as the same peculiar barked Juniper the

wood of which I sent to Sereno
branches of the same in bloom
was sent you by the last steamer
from Davenport. this species is
not easily mistaken. Look it to
be packysphora (Fou-Whipple
and Prescott are out) one mile
apart and this Juniperus is common
all about both places.

The two young plants sent you—
I am certain are Ech. Johnsoni the
largest seem is a pot or more will soon
+ be a full size plant.

Did you get a bowe with ripe
fruit with section of cactus to
identify, the fruit was it same
as flowers marked (2)

I will get some plants of
no 3 and send you one.

Have lot track of Another
Opuntia not yet in bloom will
look after it if it has not been
seen by me Any where before.

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May 22

Hope again to visit you & then can tell more about the flowering the plant will send you will no doubt bloom so you may see it, in June will send it could not find the seed nor any trifles of flowers Last year you wrote to me to look after Sch. polyanthus with 3 to 5 long slender spines several inches long stamps hooked in the center of each bunch Think I have lost one track of this will look after it and send you grown plant.

Am watching that new Agave find it in two localities will visit them both so will be likely to get flowers will try and arrange to have all seed sent you in case I am gone Am desirous to gather up the odds & ends in this section before leaving it as in all

probability I shall never
visit here again, it is not
only so much trouble to get
from place to place but
plants are so scattered there
very much wide, barren sec
tion between the fruitful places
which renders travel slow and
costly. Have laid aside
for a time my mound explor-
ations in order to look after
plants &c

Very truly Yours
Edward Palmer

Shall send to Cambridge and to
Kew plants of the above
mentioned Cactus and Agave
and will try and send you
the most characteristic plants
E. P.

MISSOURI BOTANICAL
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Aug 25 1877
Aug 13

St George Utah
Aug 27

My dear Dr

Just returned from my trip foundonly one plant of Agave Utahensis in bloom the stem 7 feet two inches tall from all of the flowering end Am satisfied there is but one species the larger growth ge is owing to additional soil & moisture in fact I cannot see Any differ ence but what is the result of local causes - soon expect to go to Mount Thumbull near the Colorado River will look after. Agave Newberry On visiting the locality of Zeh holy-cephalus this trip I examined another Zeh which I found to answer

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your discription of Ech holy
anxietus you wished me to look
after in the Mojave River
last summer there seems
much difference in spines have
one of each variation which
I will send you after everything
is put together — the spines of the
two plants sent yesterday differ
with the spines with the flowers sent
at the same time. Ryl may
make changes in spines
Echinocactus johnsonii the largest
seen was 14 inches high with one
you an average one.
Opuntia Whipplei have seen
it 3 feet high very bushy many
short branches birds build there
nests in — two feet is its average
height — will look after
skeletons you desire
Will send you more Juniper
material belonging to the snake

May 27

piece of wood & stuck.

I will look after cactus this time as they will bloom later in this locality - on the Sundale, tish I fear the species was over looked

Now Doctor have looked over your two letters and have attempted to answer your questions if anything is omitted in body it with any further questions you may with to ask

I have worked all day since 5 A.M. to am very tire

Yours truly

Edward Palmer

P.S. the cactus flowers sent was all could be found open —

Ch. W. H. Chase?
Q. ashburnham pk?

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Rec'd June 13th 1877
Ans same day

St George Utah
June 4

Dear Dr Engelmann

Just returned from a trip, will start again on another Journey of 60 miles & to Anorno Trumbull in three days I send to day by mail a package of branches of Juniper belonging to that small peice of Juniper wood sent you a short time since with rough scaley bark the tree in ?ript and size is that of Juniper Californica but it seem to be a little better shaped tree more compact & graceful its rough bark is certainly different from the long fiber

Jun 4

our bark of *J. californica*
in the same package is
scale of a small round
cactus which you may have.
in small tins box sent to
day by mail will be from
flowers of five species and
the scalp of a cactus and
Juniper was collected in
a mountainous section
30 miles East of South of
this place

very truly yours
Edward Palmer

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Rec June 23 2 1877
Ans June 25

June 15

After much in doubt
what plants should
in this first
bed — with
I
to
all the
plant will be
(in a
a
ground
and
and
cultivate
the
will be
Your

Ans July 2d St George Utah June 22

Mr Dear Sir

I sent by mail yesterday
to your address several packages
of plants — and to day ship two
boxes of Cactus to you — I start to day
for Red Creek in four days will
reach that place then will write
you fully regarding the plants
sent by mail & by freight —
very truly Edward Palmer

# POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE ONE CENT

Dr George Engelmann
3003 Locust Street
St Louis
Mo.

REGISTERED JUL 13 1888 9 P.M. DIVISION OF MISSOURI
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Rec July 12 1897
Ans — 21

Red Creek
Co
Paragoonah Utah
July 4th

My Dear Sr

I left Jo George for this place with the intention of writing to you at once but a severe indisposition prevented am now better and thought it was a good way of celebrating the day by writing to You and other friends The old name of this place is Red Creek Have collected a few plants hear nothing in your line cactus are left behind and frost has killed oak flowers and fruit. shall stay hear for a few days to Open an Indian mound will then go to the Mountains Northward at Beaver direct as usual to

St George My mail follow after me. I sent you four packages by mail one contained the wood of the greenish yellow colored flowered Opuntia, the fruit was not ripe as I left but have arranged for some to be sent you one package contained dried specimens of oak & from Mount Trumbull 60 miles a little South of East of St George - two contained small cactus that would not keep fresh sent as freight No 1 is the same as flowers sent you with the same No. a beautiful flesh color, No 2 flowers previously sent of a fine rose color these are very fine for cultivation also profuse bloomers - No 3 yellow flowered sent with the above this leaf is to is to Identify them and may prove this is all

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July 4th

the plants corresponding to flowers sent last & some you will see no ~~plants~~ flowers was sent of as they was not found in bloom, I cannot say if the Juniper seed sent you last is sweet or not when ripe but think it may be as all the Juniper seed were that I have tasted are Will try and remember the oaks — Have twice visited the locality of that wooly fruited Echino cactus and find only the unripe fruit sent they must have been blighted while in bloom or bud as yet there was no sign of even buds but have brought to Mr Johnsons Garden large plants if they bloom he will send them to you

The Opuntia Whipplii have not yet found for you but will keep a look out.

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Hope the ~~four~~ two boxes sent will soon arrive safe and in good condition they was sent as freight charges paid to the Salt Lake Rail Road — some had no roots they wood be dead and now one have to be formed to send in this manner as the size seemed best to assure Growth I would suggest to plant them in a gravely soil in pots and place these in an exposed place in the ground the hotter the better with a slight shade for a day or two — moderate water as your rains is frequent they will root by winter then place them in a dry place to rest untill nesc spring as they must have rest — and only one period of growth if you try to push them to grow all the year they will perish a period of rest with dryness they must have if you think the large plant (woolen fruited) had better be seperated it may grow better the off shoot grew freely Yrs J. E. Johnson off garden. Very truly E. Palmer

Rec July 20 th 1877
Ans 21

Paragoonah Utah
July 11

My dear Dr.

Heard to day that some cactus was growing 10 miles West of this place so hired team and went, secured a few flowers and just returned in time to get them in the mail but not in time to write this letter before the mail went out so the plants will be received first. there is not many plants this deem to be the northern limit of cactus the tallest was two feet very bushey many branching flowers as you see not very large Greenish yellow or rather the green seem to predominate colors quite bright this plant is short of statue owing to the very cold winters hear further South it is often four feet. I send by mail a peice from the

July 11

same cactus the flowers was
taken. Had expected the two
boxes of cactus was in your hands
but to day received notice of their
detention in Salt Lake freight
office for want of Guarantee of the
freight the party who agreed to go
to Salt Lake and see them off neglec-
ted to do so they will be 16 days
delayed. have written to a gentle
man in Salt Lake to see them
off and for fear he was absent have
written to another at York to arra
nge with the freight office of
that place to become responsi-
ble that I will indemnify them
against all loddes and to see that
the boxes are shipped at once
Hope you will get them in good
condition

very truly
Edward Palmer

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Rec July 27th 1877

Beaver Utah July 2

My dear D.

Just returned from my second trip to the high mountains near this place this finish my botanical collecting in Utah found 40 species — Pines and Abies have almost no fruit — drew a few on Pinus monophylla or the Pine the Indians feather and eat seed of and one or two abies with a few on oaks no fruit frost killed blooms. I send you a news paper containing a notice of my work. I will leave Beak tomorrow for Spring Lake Villa Utah by wagon will be four days, hard hot and dry journey will recam-

ine mounds in that place
hope to finish work in
Utah by last of August
after which have no defi-
nite plans formed have
written to Peabody Museum
to ascertain if it desire my
services longer at the same
time suggesting some work
in Southern California &
Arizona if my suggestions
is concurred in may be able
to fill up. some Cactus, Oak
Juniper & Agave Caps
Should I go to San Diego
would it be best to ascertain
the information you spoke
of when I last saw you
about the Lebroceduus that
grow in the mountains
some miles from there also
that new Oak you

July 20

named after me

Please give me what information you can about preserving and forwarding acorns so as to preserve their vitality — and how much of the plant is it necessary to send. Hope you will soon get the boxes of plants, they was simply addressed to you at St Louis. to look out for them

What has become of Parry have not herd from him for some time

Very truly yours

Edward Palmer

Spring Lake Villa

Utah County

Utah.

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Rec Aug 11 1877
Ans 15

Spring Lake Utah
August 5

My Dear Doctor

I hope before this that box has been received after being at so much time and trouble to get the plants it would be a pity to have them lost or dead on their arrival I did every thing to insure their safe delivery - it is gratifying to know that the plants stand the trial are growing. That leaf, large, and strange of which I said nothing was not found either in fruit of flower I saw it years ago near Fort Whipple Arizona and now South East of St George it is as you say an erect plant rather tall and with a round and very shiney trunk it grows in crevices of Isolated rocks does not seem common.

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As to the last I sent a few pounds of Echinocereus Whipplei. I have plants of this species in fruit last Winter and as late as last of May they was yellow and turned yellow (ripened) some at that time ripe but they was accidentally lost as they was seen in several places full of fruit am of the opinion that they remain on all winter and is the reason why the fruit and flowers was sent within two months of each other South of St George I have plants with buds and fruit at the same time as to the solid wood of the species I noticed that and is the reason why it was sent but old dry parts of the plant lying about was hollow fiber and the point of E. Whipplei and the common St George are as you remark are strangely different the latter very spiney while the former have none. The cactus wood sent before was the common St George Opuntia and the old wood sent was dead branch of the same plant sent to show any difference that existed.

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As I said in my former letter Augd 5
I have written to Cambridge to
see if they wished to continue
my services if they do not I
cannot tell what will be my
next move as nothing can be
done without funds I should
like to visit Cape St Lucas and
the Sand which Islands before
returning East. Should Cam-
bridge continue my services will
be as directed. It has often
occured to me that it would
assist not only my self but
Science generally if the appoint
ment of Inspector of Indians
in the Pacific coast was given
me this would enable me to go to
many places now out of my reach
& could attend to the duties of the
office and scientific matters at
the same time as all Indians
Agencies must be inspected and
the West is best for exploration the
office of Indian Inspector would

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give a good opertunity to a collector. It is in the Sept of the Secretary of the Interior did you receive a thin wood box (I C covered) with rags containing a number of small cactus. from St. George

after leaving this place which will be in a few days, will go to Salt Lake to open mounds near that city that will finish my work in Utah

I should like to meet Dr. Gray and Hooker when they visit Salt Lake could you visit Southern California and Arizona as far as Tucson then pass through Sonora to Guaymas on the Gulf of California then return by Panama you would be repaid as you would see the cactus. Agave. (an) Yucca Country of the Gentle Indian

very truly

direct Edward Palmer Salt Lake City

Rec Aug 18 '877

Salt Lake Aug 13

Dear D. Engelmann

Arrived in this city this morning — find Gray and Hooker had gone on to the Pacific but met Prof Packard of the Grasshopper Commission going to the R. R. Freight office found the plants sent long since from St George to you was detained because the freighter shipped them wrong Have had the freight as near as the Agent knew if to much it will be sent to you if to little you will be called upon to pay the balance as they are cactus they may not have died so as not to grow

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Aug 13

if dead may do for Cabinet
specimens

Hope to finish here
in a few days if nothing else
turn up and funds admit — if it may
go to Capefloattery if I cannot
do that and no word as to
continueing at work for the
Peabody Museum I shall
return to Davenport Iowa
and get Parry to help me with
my dried plants. Have shipped three large boxes to him

Hope your health
is good and that the plants
are alive

Herd Gray & Hooker
had quite an adventure they
had a twelve mile walk over
a new road and did not reach
their journeys end until mid-
night they was quite worn out

Very truly
Edward Palmer.

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Rec'd Sept 4 1877
Ans — 10

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Davenport Iowa Sep 2.

My Dear Dr. Engelmann

After finishing about Salt Lake returned to this place arrived yesterday Have you received the Cactus yet— My dried plants shipped to this place at the same time as yours was to you have not come to hand I fear they have been detained by the forwarding way of the bridge at Omaha we are desirous for them to come so the new plants can be selected to show Sir John Richardson and Dr. Gray on their arrival at this place Parry will help me make them into sets so they can be sold at once as Parry & myself are talking of going to Mexico this coming winter Am desirous of making a collection that is to be and payable Mexico seem to be the place for that — The collections made in the Big Horn sections though if complete was limited that they will not pay the cost they were of the packs divided — Sir Jno

Sept 2

over two 100 miles apart and nothing to be obtained between the places because it is all desert waste + it was a team like to persuade the journey
+ So we determined to try a more fertile country as Gray and Noble had advised & visit the place the members of the Academy at this place are desirous of dedicating or rather laying the corner stone of their new Academy building at that time and have them take part in the ceremony. Sam has ordered them to telegraph so everything may be ready on their arrival I spent the day at the Putnams Tony J. Duncan Putnam is much better My mound explorations did not prove very productive of specimens but much desirable information was received from them. The questions you ask about Cactus had best be left for a short time as I may have to go to Cambridge if so will come by St Louis and can explain all points more satisfactorily should we go to Mexico will come your way as we have to go to New Orleans Then you will have the base of (either dead or alive) cactus and all points can be settled at once — I gave up the thought of trying for the Superintendency of Woods & Forests in Utah as its a political office

Very truly Edward Palmer

Rec'd Oct 10th 1879

Davenport Iowa
Oct 8

My Dear Dr. Engelmann

Have finished my plants and start in a few minutes for Cambridge to arrange some business matters will then determine my next field of operation and thinking of Mexico if Parry would go along and money can be obtained. In your last you spoke of a set of plants Parry will write you about them. We selected a number of specimens that belong to your specialties which the Doctor will send you as to the Live plants I paid 10 ℔ Ten dollers

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Freight on them from St.
George to St Louis for the
expence of procureing them
and the articles sent by mail
allow any thing that you can
afford and it will be satisfac
tory. You have asked in
your last two letters many
questions about Cactus &c
sent you. I will look over
your letters carefully on
reaching Cambridge and
answer your questions to
the best of my ability. Then
in going Westward and I pass
by St Louis day stoping an
hour or two so as to look over
the specimens with you may
be able to complete your
information more satisfac
torily I may stay several
days at Boston & Cambridge

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Oct 8

Hope the frost will not have injured the garden at Cambridge.

Must close as the Carrs are ready to move

Very truly

Edward Palmer

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Rec Nov 5 — 1877
Ans Jan 3?
to Mexico

Cambridge Mass
Oct 30

My dear Dr. Engelmann

I was over to the Botanical Garden yesterday & saw the cactus & similar lot to those sent you they all seem healthy look well as if they all intended to grow — In one of your letters last summer you asked the question if the Juniper berries of Southern Utah was sweet or not as I was writing to St George to day asked Mr. C. C. Johnson to send you a pint of Juniper berries if they are ripe now so you could determine that point I also asked him to send you a live branch or two of that Cylindrical Cactus that you might try and raise it if he find seed to send them also In your letter of Sep 10 you asked if that Ech polycephalus with 11 heads is the usual form it is many headed I did not find one with a single head and only one with two that was sent to Cambridge they grow about as large and tall again as yours. I notice the old ones are inclined to shed the old spine at base as some was bare an inch or more above ground I think the reason why I did not find ripe seed was the flowers of last year just as they opened was killed by some canker those I sent you

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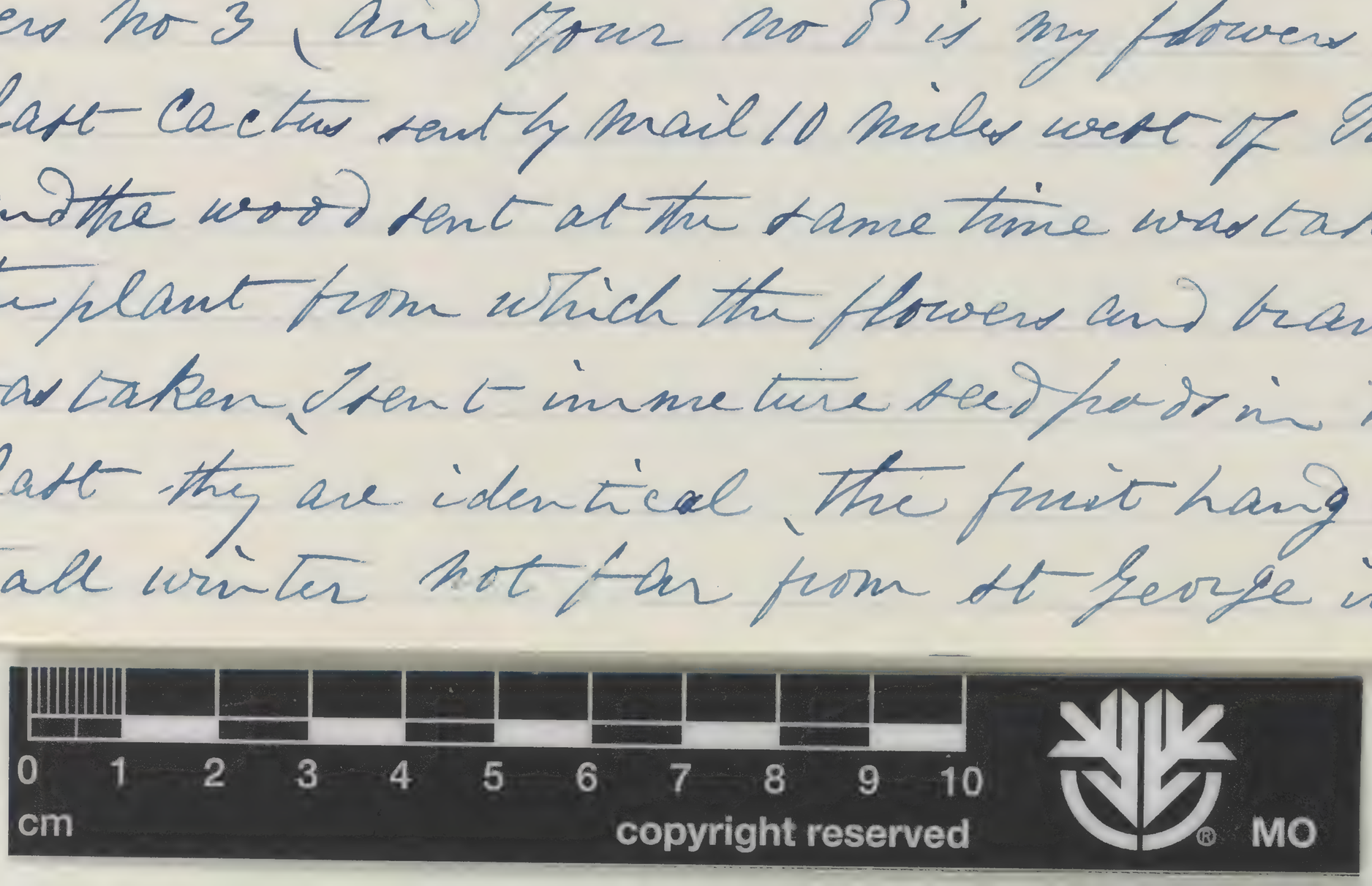
appeared so no other Kind was found — those of the Botanical Garden show no signs of blooming. I wonder if Johnsons bloomed in his garden at St George — he promised to send you the flowers if they did. (it grows near beaver dam

Echino cactus Wislizeni. the larger are much more Elevate than the young I did not measure them but it seem fair to say they grow 3 feet or more and 16 inches diameter

Ech Johnsoni long cylindrical the largest that is as large as they generally grow of course a stray one might be found larger — The opuntia with numerous and slender spines, almost gray + is the same as the purple flowers sent last summer you called Rutila (the large joint you desig nate under (no 6) was also sent by mail and in a former letter you thought it was O chlorotica — it is rather tall round very spiney trunk — long spines on leaves it has several branches forming big head Grows in crevices of rocks found 30 miles East of South of St George — but in Arizona I also saw the plant near Fort Whipple Arizona The Opuntia you designate by (no 7 is the same as the flowers no 3 (and your no 8 is my flowers no 1

The last Cactus sent by mail 10 miles west of Parasoo nah and the wood sent at the same time was taken from the plant from which the flowers and branches sent was taken, I sent immature seed pods in May or April last they are identical, the fruit hang on the plants all winter not far from St George in June



Acc Nov 5 Oct 30

I saw several plants full of fruit & green yellow at the same time the plants were full of flower buds ready to open — the seasons are much later at Bayoonah it the reason why the plant was found so much later in bloom. the old fruit fall off to give place to the new — I am sure the wood sent was taken from the very plant the flowers and branches sent was taken & Whipplei is easily distinguished by its smooth fruit and diff erent spines on the plant from the St George species The solid wood and the old full of insects are I am sure the same the St George species part of the plant was dead the other as sent to you living thus came the solid and decayed with insects + (with the Whipplei I saw dead branches with insects — One thing I ought to have observed if the dead bodies became full of insects as well as the branches — one would think that if the branches was hollow and insects the storm would be so also when decayed, I shall write to J. C. Johnson in a few days then I will ask him to ascertain that fact Any other information you may wish please write at your earliest convenience

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about so I can inform you as Parry and my self are talking of going to Mexico if we can so arrange am expecting to have his final answer any day I may go as far as Vera Cruz in advance of him. And may not be able to call at St Louis if I should go from New York

My collection this year turned out very well in new & rare species so says Dr Gray.

Yours truly

Edward Palmer

Peabody Museum

Cambridge

Mass

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Rec Dec 4th 1878

they may leave here today
by a train over land it will
reach Paris in December I fear
the last will not have
heard of sent two times before
but could not take
them have done all I can do
in this locality time tries
out. I expect to leave here
in a day or two for the Atlantic
Coast where I will see the
to finish before the Middle
of latter part of December
then shall take steamer for
New Orleans near Gulf
Mexico + Central part of Mex

from to holds but his nothing
prevents. If Barnetta if the
place not to me a letter he
receive from you I me
time since in which you expire
les a wife for plants. as he
Cannot for the moon Come. I
have taken into Consideration your
desires + obtaine all the statements
possible — By mail to day he
put her plants and they will go
Die & large berry vine & pine grow
among rocks in the Bottom Cuba of
Alaska you will receive
all the leaves but the center stem cut
off to reduce it for the mail besides
it will not rot Put Cuttings
with from earlier than the seed
small + put grow by a stem pin
Mail + put green by seed pods

MISSOURI BOTANICAL GARDEN
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Rec April 20
ans — 6th

Saltillo Mexico March 21 1880

Dr George Engelmann

My Dear Sir

I arrived in this place Yesterday and at once arranged to visit a mountain section containing pine & oak start in two days will be absent 5 days then visit another mountain locality for plants and trees finishing up my work at this place by spending some days among the Magueys and Cactus - after packing up and shipping collection will go to the section about Parras Laguna and Balsa Mapimi the unknown sections to spend some time returning by way of Mount Clover to spend some days then to Fort Clark Texas &c. Am desirous to carry out this plan as the Election for President comes off June 25 and there is likely to be a Revolution which would prevent one from traveling about thus a desirous of being as near the frontier as possible so I can jump over. As you may be absent from home this summer may arrangements be made to receive the live plants I may send you by mail also those sent in boxes so the plants may be planted and care for

Before leaving Monterey visited the locality of that new Agave it is some miles from Monterey by rail I sent you 7 packages of plants. The Cactus was coming into Bloom those just blooming was sent by mail - small plants of the Agave Victoria and an Agave I never saw before was sent by
x In Monterey I left a large box to be shipped at once directed D. George Engelmann To Louis

Mo. it will be shipped to Matamoras in care of A. M. Erhard a merchant who will ship it either to New Orleans or Galveston do you know which transportion company to see, that they may deliver the box to you as soon as it arrives in St Louis. the box contain a number of small cacti & flowering bulbs including all the kinds found in Monterey excepting one or two sent by mail. One or two will be found in fruit.

You will find in the box an eye opener (a fine large plant of Agave Victoria full size and showing it will bloom this summer it was deprived of its old leaves so as to pack it this will not prevent it growing so as to bloom + It has a flowering stem straight like that of Agave Potatorum 5 to 10 feet high one third of length containing flowers It blooms in the fall this plant will afford you an opertunity of making all the notes you may desire - no flowering plants to be found only old ones grows in dry gravelley elevated hills the plants had to be let down by ropes thus some spines and leaves was unavoidedly injured but only slight You will find seven plants of various sizes in the box also another plant like the other agave sent by mail it has long elastic succulent leaves which cut like rubber it grows in crevices of rocks has very long & smooth leaves should have sent you a larger plant but could not get it into the box several are sent to Cambridge so one can be got from there. it was not seen in bloom nor was any old stems seen

Mar. 21 80

Agave could not be got into your box so sent it to Cambridge with instructions that it be forwarded to you at once on its arrival. its contents was of too much importence to risk distruction by mail as it contained a paper of seeds of the Agave Victoria a number of capsules and old blooms besides a section of the flowering stem with capsules and old flowers as taken from the plant this is sent you as complete material as could be had and should the plant bloom satisfactorily you will have an opertunity to complete the notes of this important Agave And told it is used in the manufacture of Pulque all as it will arrive about the time your climate will admit of it being planted out doors would suggest that the large plant be put in a large pot or tub so that in case it flowers late in Summer it can be taken in with out disturbing it so as to mature its flowers and seeds. its native soil is coarse gravelly. very much water had better not be given it pot the first few days after planting it. increasing it as it takes root and throws up the flowering stem hoping these plants will grow to your satisfaction will say I may send more to you from this place should any thing be found in your line, live or dead should you wish to write me

address me at Parras Estada Coahuila Mexico
as I will be there some time it will reach me
Hoping you are in good health I remain
your obedient Servant
Edward Palmer

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Rec May 11
Ans ~ 12 to Parry

Letter of March 28 and
how Spit 2?
Corr answered to Parry 4/6

Saltillo Mexico
Ap 19, 1880

Dr George Engelmann

My dear Sir

I have to-
day turned over for shipment
to your address one box
containing several species of
cactus and a native species
of Agave from this section
which I thought in all proba-
bility you had not previously
received specimens of. Those
that do not live had better
be preserved to aid & assist in
forming the notes for the
dried blossoms five or six
species only have been found
in bloom yet - three had done
blooming - This is a nice as-

portment — one kind no
young plants small enough
for packing could be foun
to send offshoots which
will grow the have flower
on top. Cannot write much
for a cactus thorn run into
my finger & the bone causing
me much pain it was with
much difficulty the box
could be packed and this letter
written. It is so very dry in
this section that there is but
few things in bloom until
the rainy season which begin
in July so have decided to go
to Parras ~~x~~ ~~in~~ that section being
as the Laguna of rich fertile
soil the flora best now as
during the rainy season it
is overflown with water
so you cannot get about.

Ap 19 '80

Then I can return to this section which is surrounded by mountains which must support a great variety of vegetation have looked up two places for pines & oaks fies. in one locality prevented me from getting specimens while the oaks was not sufficiently in bloom for specimens and it was to expensive to either wait or return later as there was no other trains to set. so later will go and get the fruited specimens in the rainy season when there will be other plants I may also again visit Montera there is pines near there returning by way of

"Montclover there is said
to be Pines oaks many cacti
and Agave there, at Fort
Clarke near the Rio Grande
in Texas an elevated locality
will be my last collecting
spot in October. Then will
return. It is exceedingly
difficult to get about. As
there is some probability of
a revolution will not go beyond
Paris as every one advise me not
the plan adopted gives me
an opportunity in case of disap-
pointment to fall back for safety
to a large city besides my funds
will not allow of further extension
Hope you and Parry will
have a good time in Mexico.
And return with a good haul
Yours truly
Edward Palmer.

MISSOURI BOTANICAL GARDEN
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Rec'd Oct 10
Ans Oct 15 1880

Tahiti Mexico July 3

Dear Doctor Engelmann

Yours of June 10 th has announcing the arrival of the box of plants from this place one reason for sending the large plants was because no smaller ones was to be found - as fruit ripens all the year round - but I am now in the season of flowers that I hope may have some plants and will send some by mail for comparison the large ones might flower this season too - I do not dried specimens. I will collect all the flowers + fruit to be found - That large Agave may soon flower because it was obtained from a very dry place was some size but cut the leaves to transport it as had to be carried on back of mule several miles to Tehuitzingo for packing and had come a

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near maturity for flowering
I have to-day put into
with flowers attached obtained
in the Laguna section as other
material attainable, on the coming
trip hope to obtain more & better
Am glad the material of the
leaves pictured & specimens
sufficient complete to enable you to
describe it for publication.
I have received your former letters
it would give me pleasure to furnish
all the information you desire
regarding that last I have
sent to you
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
Will try and return Yucca
to San Luis Pot for shipment
October or November. Hope
your health & strength may
bear them safely on their way
return by way of Eagle Pass
but my future movements depend
will have a pleasant and profitable
time from E. Palmer

Rec Jan 27
a— 1— 25

Cambridge Mass. Jan 23, 1881

My Dear Dr. Engelmann

I send by mail a tin can containing a cactus that died at the botanical Garden. last summer I found two of this species and sent them by mail they are from the mountains of Saltillo of a pea green color covered over with numerous white specks like bark lice these show but little now the green has left.

In conversation with Mr. Watson regarding the Yucca from Sierra Nola of which you require information I must say in the herbarium the same species is not to be found And there are two species of which I remember all about either of which yours may be. It will be best to send your leaf then it will enable me to answer your enquiries about the Sierra Nola Yucca.

Very truly Yours
Edward Palmer.

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MO

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Rec Feb 19

Peabody Museum of American Archæology and Ethnology.

HARVARD UNIVERSITY.

F. W. PUTNAM,
Curator of the Museum,
LUCIEN CARR.
Assistant Curator.

Cambridge, Mass., Feb 15 1880.

Dr George Engelmann

My Dear Sir

Should have answered your letter before but have been indisposed the severe cold weather to which I am not accustomed effect me sensably. Am better to day & many thanks for the post office order. My future operations are undetermined but am negociating with Prof Baird who is desirious that I should duplicate the collection for him which I have made for the.

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Peabody Museum Jan
thinking of inducing him
to allow me to finish up
some observations in Arizona
and New Mexico then con-
tinue on to Chihuahua and
Durango Baird will be
able to tell what he can
do after the fourth of
March. In the state of
Coahuila Mexico collected
material complete of two
Yuccas and two Agaves that
may not be fully known or
may be new. One Yucca
Watson think is new. I fear it will
be end of March before my
plants are in sets.

July 5. '81

That Yucca of the Sierra Nola was large with body several inches through with branches the old leaves hanging down like the thatch ~~roof~~ of a building. I have seen that tree form of Yucca which you found and sent block of stem to Agricultural Department every one call it Baccata it must be the same Rio~~ad~~ that grow several feet high near the hills back of San Diago the common baccata has no ~~woody~~ stem — I in a mountain near Saltillo obtained a few specimens of Coniferous Trees — with the wood, scarcely a new coon was to be had but got few old ones

A fire had run over the mountain range a few

days before destroying fruit
and leaves months after visited
the spot but no fruit
While I am waiting until
my plants are ready for me to
make them into sets have con-
cluded to complete as far as
possible my collection of peices
of historical buildings. In
St Louis is the old Chouteau
Stone building it was either a
mill or trading post of Indians
during the early days of St Louis
do not Rnow the street
could you find out the lo-
cality and procure me a
peice day 3 or 4 inches square
of the stone it can be taken
from some obscure part
mark on it from what part of
the building taken I think the
building is now a Tavern. but

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Rec Feb 19 7th 1581

am not certain a long time
since saw a newspaper article
stating it was still standing and
as it is one of the old land marks
it may be well known

Would you inform me if the
building is changed from the original
form — for what purposes now used
and in what state of preservation
can a small photograph be had
of the building — building of this class
are generally photographed as there
is a demand for them.

Am desirous to complete my
collection of pieces and Photographs
of historical objects for the New
York Centennial

I shall consider it a favour
if can assist me in this matter
I know of no one else in St Louis
I am aware of the amount of

work you must have on hand being absent so long but hope you will excuse the encroachment.

Yours truly

Edward Palmer.

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Rec Dec 15th
Ans Dec 17

Davenport Iowa
Dec 13

Dr. J. Engelmann

My Dear Sir

On the eighteenth instant I will leave this city for St George Utah for the winter and may be the spring - As I am going escploring for Indian mounds and visiting the living Indians in the interest of the Peabody Museum Cambridge let me know if there is any thing in that section you desire A package of plants is forwarded to you Dr. Parry may have written to you yesterday then each specimen is numbered and a letter attatch which designates the locality. after you have identified them

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foward Dr. Parry a list of the
names & numbered so he can
name his - the plants you
reclain They was collected
at the following localities
Colorado River valley Arizona
march. (are marked A)

Hassayampa valley central
Arizona beginning of April (B)

Prescott Arizonia, mountain
district central Arizona
latter part of April (b)

25 miles North East of San
Luis Obispo California
July (C)

Hope you will find something
to interest you in the package

Dec 13

D Cleveland of Sandiego
California informs me
that Mr. Dunn did not
get the fruit of that new
oak or the seed of Abies
Macrocapa — I shall have
to make a trip after them
may possibly by next fall work
round to San Diego

Yours truly
Edward Palmer.
St George.
Utah.

Philippians 7.

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